

a separate collection conduit positioned adjacent to or into one of the downstream channels and having a collection seal for occluding external fluid flow; and

a fluid to be administered to the biological mass through the delivery conduit, and reclaimed by the collection conduit.

49. (New) The system of claim 48, wherein the fluid further comprises an agent.

50. (New) The system of claim 49, wherein the agent is selected from the group consisting of natural and synthetic drugs, growth factors, gene therapy compositions, chemotherapeutic chemicals, anti-bacterial chemicals, anti-angiogenic chemicals, and combinations thereof.

51. (New) The system of claim 48, wherein the delivery conduit further comprises a delivery seal for occluding external fluid flow.

52. (New) The system of claim 51, wherein the delivery seal comprises an elastomeric balloon.

53. (New) The system of claim 48, further comprising a pressure device, wherein the pressure device is in fluid communication with the delivery conduit.

54. (New) The system of claim 53, wherein the pressure device exerts a positive pressure, and the pressure device is selected from the group consisting of positive displacement pumps, syringes, vacuum pumps, delivery pumps, suction pumps, metering pumps, and intra-aortic balloon pumps.

55. (New) The system of claim 48, further comprising a pressure device in fluid communication with the collection conduit.

56. (New) The system of claim 55, wherein the pressure device exerts a negative pressure, and the pressure device is selected from the group consisting of positive displacement pumps, syringes, vacuum pumps, delivery pumps, suction pumps, metering pumps, and intra-aortic balloon pumps.

57. (New) The system of claim 48, wherein the delivery conduit comprises a delivery catheter, wherein the delivery catheter includes three internal lumens.

58. (New) The system of claim 48, wherein the delivery conduit comprises a delivery catheter, wherein the delivery catheter comprises as separate lumens, a balloon inflation lumen, a guidewire lumen, and a drug delivery lumen.

59. (New) The system of claim 48, wherein the separate collection conduit comprises a collection catheter, wherein the collection catheter comprises three lumens.

60. (New) The system of claim 48, wherein the separate collection conduit comprises a collection catheter, wherein the collection catheter comprises as separate lumens, a drainage lumen, a guidewire lumen, and a balloon inflation lumen.